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#### ABSTRACT

This document contains an introduction to the Ohio Integrated Technical and Academic Competency (ITAC) and Specialization ITAC; an overview of the graphic communications field; a list acknowledging professionals who helped develop the competency list; and a comprehensive list of the professional or occupational competencies deemed essential for graduates to be able to perform proficiently when they graduate from an Ohio specialization workforce development program on graphic communications. The introduction explains the following: (1) critical academic, employability, and information technology skills have been integrated throughout the list to support the technical skills; (2) the competency profile can be used as the basis for curriculum development in Ohio's secondary, adult, and postsecondary programs; and (3) the specialization competency profile is organized so that it can be clustered or grouped in a modular approach. The overview of the graphics communications field describes general duties, some specific tasks, employment opportunities, length of program, type of program (classroom instruction and/or work experience), and types of certificates and/or degrees. The competencies are grouped under broader skills that are, in turn, categorized under these eight major topics: introduction to graphic communications; safety in the graphic communications industry; job planning; design and digital image preparation; film generation; image assembly and platemaking; press operations; and finishing and binding. (YLB)



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Specialization Integrated Technical and Academic Competency (ITAC)

Updated Friday, September 14, 2001 01:26 PM

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## **Acknowledgements**

# **Overview**

38.01.00.0	Introduction to Graphic Communications
38.02.00.0	Safety in the Graphic Communications Industry
38.03.00.0	Job Planning
38.04.00.0	Design and Digital Image Preparation
38.05.00.0	Film Generation*
38.06.00.0	Image Assembly and Platemaking
38.07.00.0	Press Operations
38.08.00.0	Finishing and Binding



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# Introduction to the Specialization ITAC

Revised 2001

The Ohio Integrated Technical and Academic Competency (ITAC) profiles are developed under the auspices of the Ohio Department of Education and the Ohio State Board of Education. They provide a broad-based educational response to Ohio's need for a skilled workforce. Each Specialization ITAC represents a profile of the professional or occupational competencies deemed essential for a graduate to perform proficiently when he or she graduates from the specialization workforce development programs in Business and Marketing, Industrial and Engineering Systems, Health Occupations, or Family and Consumer Sciences. The Specialization ITAC profile, in conjunction with the competencies identified in the Foundation and Clusters ITACs, provide a career pathway that can lead to employment or further education.

#### **Process and Intent**

The integrated competency lists are the result of all encompassing research and review of existing competency profile lists and includes input from industry, labor, professional organizations, professional and industrial representation, and national standards for a specific industry/profession. Representatives from a broad cross-section of Ohio professional organizations, businesses/professions, industry, and labor played a critical role in identifying current and future knowledge and skills for the industry, and defining the vision and scope of the profession/industry. The instructional methods and teaching strategies are the responsibility of the local school system and/or instructor.

# **Curriculum Applications Using the ITAC Competency Profiles**

Each profile includes a comprehensive listing of occupational skill competencies that reflect the job opportunities and skills that are required to work in a specific profession/career pathway. Critical academic, employability and information technology skills have been integrated throughout the list to support the technical skills. These competency profiles will be used as the basis for curriculum development in Ohio's secondary, adult, and post-secondary programs. The specialization competency profiles are organized so that they can be clustered or grouped in a modular approach. Individual curriculum specialists can use the competencies profiles to develop instructional programs based on local needs as determined in conjunction with their local advisory committees. i.e., the specialization cluster academy approach. Final assessments will be designed to accompany each profile list and to accommodate student evaluation by modules.

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#### Acknowledgements

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2001 Revision

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### **Overview**

# **Graphic Communications**

The printing and graphic communication industry is the fourth largest manufacturing industry in the United States – employing over 1,213,700 people in approximately 48,000 establishments, and selling over \$150 billion products each year. The industry is dominated by small- and medium-sized businesses, many employing fewer than 20 employees.

Printing and graphic communications are everywhere – documents, brochures, books, magazines, greeting cards, and stamps. But it's more than ink on paper. Look around you – printers manufacture products, packaging, textiles, credit cards, holograms, tickets, decals, labels, and many other items. And printers are becoming full-service marketing and communications providers – offering other services such as multi-media, warehousing, website creation and hosting, and more.

Modern printing is a highly sophisticated, vibrant industry at the cutting edge of innovation, including the combination of new digital and traditional press technologies. The historic role – putting ink on paper – is just one of a broad spectrum of client services provided. Nevertheless, printing holds, and will continue to hold an important role in our culture's communications structure for many years to come.

With a long tradition of craftsmanship from Gutenberg to Benjamin Franklin to the modern printer, printing has always kept pace with, in fact often initiated, new technology. A growth industry, printing and the graphic communications offer a host of career opportunities including management, sales, technicians and operators, artists, customer service, delivery, and more.

America's printing industry offers an exciting career that combines good pay with plenty of challenge and growth, all in a vital industry that has been central to our society and our way of life. Today's printing industry is a competitive, innovative business in which technologically savvy and diverse job skills are in high demand. According to the National Association of Printing Leadership (NAPL), printing has outperformed a national trend since 1980; growing industry employment by 168,000 jobs, or 41.2 percent, while overall manufacturing employment dropped by 1.8 million jobs, or over 9 percent. In Ohio, there are over 2,400 printing establishments employing well over 50,000 individuals, making it the third largest manufacturing industry in the state, accounting for nearly \$8 billion in revenue. It is estimated that more than 22,000 new jobs will become available in Ohio in 2001.

A career in Graphic Communication provides an opportunity for expression of creativity along with a sense of pride seeing a product evolve into a unique product.





#### 38.00.00.0 Graphic Communications

8.01.00.0	Introduction to Graphic Communications
38.01.01.01 38.01.01.02 38.01.01.03	Define the Graphic Communications industry  Outline the scope of Graphic Communications in the free enterprise system * Identify printing markets and types of printing businesses* List printing's ranking among other industries* Identify the employment opportunities in the Graphic Communications industry
38.01.02.01 38.01.02.02	Determine skills needed to work in the Graphic Communications  Match Graphic Communications occupational job titles with qualifications and responsibility*  Identify education and training required to work in the various Graphic Communications careers*  Identify basic salary/wage expectation ranges for local area*
38.01.03.0	Investigate various aspects of the Graphic Communications
38.01.03.01	Identify the major printing processes*
	List the advantage of each major process*
	Identify the products produced by each major process*
	List in order the business flow of printing from initial need to final product*
	List in order the technical production flow from idea to finished product*
38.01.03.06	Describe basic printing technology
38.01.04.0	Examine elements of the business cycle
38.01.04.01	Describe job flow from initial customer contact to collection of payment
	Examine cost factors of printing jobs (e.g., labor, benefits, materials, overhead, sales and administration, debt service, depreciation)
	Interpret basic business terms (e.g., purchase order, blanket order, invoice)
	Evaluate the disparity between the estimated and actual cost of the finished product
38.01.04.05	Apply actual job data in preparing future estimates
38.01.05.0	Practice effective business skills
38.01.05.01	Demonstrate professional customer relations skills
38.01.05.02	Describe basic expectations of employees in terms of quality, quantity, timeliness, and materials usage
38.01.05.03	Demonstrate organizational skills
	Identify priority of job tasks
38.01.05.05	Demonstrate basic math proficiency (e.g., conversion tables, measure density, volume, ratios,
38.01.05.06	Demonstrate reading comprehension

#### 38.02.00.0 Safety in the Graphic Communications Industry

0.02.00.0	Suitely in the Graphic Communications industry
38.02.01.0	Practice Lab Safety
38.02.01.01	Identify Occupational Safety and Health Administration (OSHA) standards as they relate to the Graphic
	Communications industry
38.02.01.02	Explain the purpose of the Occupational Safety and Health Administration (OSHA) and how it promotes

safety on the job 38.02.01.03 Report unsafe conditions in accordance with Occupational Safety and Health Administration (OSHA)

guidelines

38.02.01.04 Identify the location of Material Safety Data Sheets (MSDS)\*

38.02.01.05 Follow safety procedures as outlined on MSDS\*

38.02.01.06 Identify consequences of disregarding safety rules

38.02.01.07 Follow manufacturer's recommendations for the safe use of chemical products (e.g., proper ventilation)\*

38.02.01.08 Identify the established procedures/regulations for storing/handling hazardous materials\*
38.02.01.09 Dispose of hazardous materials in accordance with Environmental Protection Agency (EPA) standards

38.02.01.10 Identify location of fire extinguishers and fire exits\*

38.02.01.10 Identity location of tire extinguishers and fire exits\*
38.02.01.11 Conduct routine inspections of safety and fire equipment
38.02.01.12 Demonstrate established procedures for the use of fire extinguishers\*
38.02.01.13 Identify health hazards in the workplace
38.02.01.14 Identify basic first aid procedures\*
38.02.01.15 Demonstrate knowledge of appropriate actions to take in response to given emergencies\*
38.02.01.16 Identify the procedures for responding to a medical emergency\*

38.02.01.17 Lift/transport objects and materials in accordance with established safety practices

#### 38.02.02.0 Handle tools in accordance with established safety procedures

38.02.02.01 Use safety apparatus and equipment in accordance with job requirements and safety standards\*
38.02.02.02 Handle all tools according to manufacturer's specifications regarding safe use\*

38.02.02.03 Wear personal protective equipment, safety gear or clothing appropriate for given jobs\* 38.02.02.04 Conduct routine inspections of tools and power equipment

38.02.02.05 Interpret instructional manuals for safe operation of power tools and power equipment 38.02.02.06 Maintain safety guards and switches on all machinery\*

38.02.02.07 Shut down power in dangerous situations using power-kill switches\*

#### 38.02.03.0 Protect workers from ergonomic injuries

38.02.03.01 Identify furniture and work practices that insure healthy ergonomic practices

38.02.03.02 Identify repetitive motion activities that might cause injury

38.02.03.03 Maintain posture to prevent injuries



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38.03.00.0	Job Planning
38.03.01.0	Communicate with customers in a professional manner
	Identify customer specifications
	Use effective communication skills
	Complete work orders or estimate sheets
38.03.01.04	Communicate job estimate to customer
38.03.02.0	Interpret job specifications
	Determine press size and finish size
38.03.02.02	Specify composition methods
38.03.02.03	Select finishing method
38.03.02.04	Specify outside services  Propose single and multiple short dumming
38.03.02.03	Prepare single- and multiple-sheet dummies Determine layout and imposition
38 03 02 07	Specify paper
38.03.02.08	Specify ink
38.03.02.09	Determine reproduction processes that fit job requirements
38.03.02.10	Provide detailed information for production
38.03.03.0	Calculate paper needs according to job specifications
38.03.03.01	Calculate number of pieces per sheet considering grain direction
	Determine appropriate and most efficient cut from a parent sheet based on job specifications
38.03.03.03	Recognize standard sizes and weights of paper
38.03.03.04	Measure thickness of paper using a micrometer Calculate a combination cut using stock cutting formula
38.03.03.06	Calculate number of sheets required
38.03.03.07	Identify finishes of paper
38 03 04 0	Complete job ticket and job schedule for a job
	Review customer specifications
	Prepare job ticket, including individual job operations
	Compare job ticket to customer specifications and job estimate
	Review job ticket
	Check inventory Order needed supplies
	Designate production timeline and completion date
	Schedule work flow
38.03.05.0	Prepare cost estimates
	Prepare cost estimates using given items, costs, and specifications for a one-color, one-up job, step job, four-
	page job, eight-page job, and/or four-over-four sixteen-page folded saddle-stitched job
38.03.05.02	Identify component costs
20 04 00 0	Design and District Towns Design and in
38.04.00.0	Design and Digital Image Preparation
	Design layouts
38.04.01.01	Review job ticket**
	Draw thumbnail sketches Draw rough sketch
38.04.01.04	Select art
	Prepare comprehensive
38.04.01.06	Review comprehensive with customer to obtain approval
38.04.01.07	Identify the various kinds of items that can be designed and produced using desktop publishing**
	Identify the basic principles of design (i.e., unity, contrast, page proportion, balance)** Incorporate the basic design principles in hand drawn sketches and measured layouts**
38.04.02.0	Operate desktop publishing systems according to manufacturer's specifications
20 04 02 01	and program documentation*  Identify the various kinds of items that can be designed and produced using desktop publishing*
	Log-on/boot-up and print out a page layout program *
	Demonstrate a functional knowledge of computer commands/codes/menus/palette for the software in
38.04.02.04	Identify fundamentals of type and its uses*
38.04.02.05	Choose type using correct size and format*
38.04.02.06	Demonstrate keyboard typing proficiency of 30 WPM*
38.04.02.07	Set text with appropriate margins, formatting, gutters, leading headings, guides, trims and folds* Flow copy from word-processing program to page layout program according to job specifications*
	Define the difference between raster and vector*
38.04.02.10	Define removable media*
38.04.02.11	Import an image in a page layout document*
38.04.02.12	Identify line images**



	Identify continuous tone/halftone images**
	Identify basic process color principles and kinds of four-color printing**
	Identify digital color proofing techniques**
	Identify digital image preparation and output equipment**
	Identify basic desktop publishing equipment** Explain the limitations and capabilities of desktop publishing**
	Identify the differences between bitmap and vector**
	Define postscript**
	Distinguish between word-process, page layout, and graphic software**
	Demonstrate the operation of digital image preparation**
	Select appropriate software for word-processing, graphics, scanning and page layout**
	Explain basic components of typographical compositions (i.e., by their point sizes and styles, basic type styles and their uses, serif and sans serif types, spacing, tracking and kerning of type characters, spacing and measurement principles of the leading text, type arrangements, flush left-ragged right, flush right-raged left,
38.04.02.25	centered and justified Explain the difference among postscript type, true type, and multiple-master font
38.04.03.0	Demonstrate file management operations for opening, copying, saving, and
	deleting files*
	Organize a file management system for opening, copying, saving, and deleting files*
38.04.03.02	Collect components of a job (i.e., fonts, images, document, instructions)*
38.04.03.03	Produce/maintain backup files*
3001010	Description of the second seco
	Demonstrate page layout to meet job specifications
	Demonstrate a knowledge of available page layout programs: capabilities, advantages, and disadvantages**
38.04.04.02	Demonstrate the use of electronic dictionary, spell checker, and automatic hyphenation**
	Demonstrate a functional knowledge of computer menus and palette for the software in use**  Demonstrate total claimment element positioning and rules of page design for printed matter**
38.04.04.04	Demonstrate text alignment element positioning and rules of page design for printed matter** Set up column grids for electronic page-layout according to job specifications**
	Proof-read manuscript copy and make necessary corrections using basic proof-reading marks**
	Set up/select appropriate pagination for a given job**
	Set text with appropriate margins, formatting, gutters, leading headings**
38.04.04.09	Import copy from word-processing program to page layout program according to job specifications**
	Design/produce a document using desired font styles, margins, indents, and tabs**
	Proofread, edit, and make corrections/adjustments to copy on screen
	Place graphics from an existing file into a publication**
	Demonstrate the procedure for cropping graphics electronically**
	Create a two-sided, three-panel brochure using graphics and text from publication**
	Create a four-page newsletter using windows, blocks, text graphics, frames, and headings**  Create a two-page newsletter using drop caps for paragraph openings, wrap-arounds (run-arounds) and graphics**
38.04.04.17	Create a printed piece using tints, reverses, and manipulated type for effect**
38.04.04.18	Produce a multicolor flyer by outputting individual spot colors**
38.04.04.19	Place scanned graphics/photos into existing page layout**
38.04.04.20	Demonstrate knowledge of page layout programs**
38.04.05.0	Check finished proof
	Review alignment
	Produce proof copy of mechanical
	Check proof for accuracy
	Obtain written customer approval
38.04.05.05	Make needed corrections
39 NA NA N	Perform scanning operations
20.04.00.0	Identify DPL, LPI and PPI **
	Compare and contrast DPI and PPI**
	Demonstrate knowledge of scaling**
	Identify scanner hardware and its basic components and operations**
	Identify basic scanner software, its uses and limitations**
	Demonstrate appropriate scanner program operations for line artwork**
38.04.06.07	Demonstrate appropriate scanner program operations for continuous tone copy**
30 04 05 0	D. A.
38.04.07.0	Demonstrate raster and vector applications
38.04.07.01	Demonstrate a functional knowledge of commands/codes/menus and procedures for graphic usage**
	Draw a design appropriate for a given job using a graphic program**
38.04.07.03	Create a design using tints and fills for a given job using a graphics program**  Create a design using manipulated type (i.e., rotated, circled, extended) for a publication)**
38.04.07.04	Trace a drawing/photograph using a graphics program**
38 04 07 04	Create a design/publication using electronic clip art**
38.04.07.00	Explain the differences among TIFF, EPS, PICT, PDF and DCS in a PostScript environment**
38.04.07.08	Translate files from Windows to MacIntosh formats and MacIntosh to Windows
38.04.07.09	Convert documents to PDF format



38.04.08.01 38.04.08.02 38.04.08.03 38.04.08.05 38.04.08.05 38.04.08.06 38.04.08.07 38.04.08.09	Create color documents  Use a file compression utility for file transfer or storage Describe the differences between True Type and PostScript fonts Create a single-color layout using clip art Create a single-color layout using work and turn/work and tumble Change contrast using tint screens and shading techniques Create logo design on computer and integrate into a brochure design Produce curved or special effects type using graphic applications Produce a job on the computer using electronic imposition Create a job that incorporates electronic trapping Produce a multicolor job that includes scans, text, and spot color artwork
38.05.00.0	Film Generation*
38.05.01.0	Generate analog film images*
	Identify basic darkroom equipment and hand tools*
	Identify basic materials and supplies for line photography*
	Produce a quality line negative and halftone using sensitivity guide/scale*
38.05.01.04	Explain contact and duplication films
38.05.02.0	Generate digital film images*
	List the capabilities and functions of imagesetters
	Calibrate/verify equipment settings
38.05.02.03	Produce quality line and halftone images*
38.05.03.0	Evaluate images
	Identify evaluation tools
	Identify over and under exposure in both analog and digital
	Identify over and under development
38.06.00.0	Image Assembly and Platemaking
38.06.01.0	Follow safety practices in image assembly
	Identify safety considerations in image assembly operations***
38.06.01.02	Practice safe working habits in image assembly operations***
38 06 02 0	Perform image assembly
30.00.02.0	1 ci ioi in image assembly
38 06 02 01	Identify basic hand tools in image assembly
	Identify basic hand tools in image assembly  Identify basic materials in image assembly
38.06.02.02	Identify basic hand tools in image assembly Identify basic materials in image assembly Identify basic equipment in image assembly
38.06.02.02 38.06.02.03 38.06.02.04	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up)
38.06.02.02 38.06.02.03 38.06.02.04	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work
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38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08 38.06.02.09	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet
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38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08 38.06.02.09	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08 38.06.02.09 38.06.02.10	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08 38.06.02.09 38.06.02.10	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats  Assemble a flat for single color-envelopes
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.07 38.06.02.07 38.06.02.09 38.06.02.10 38.06.03.01 38.06.03.01 38.06.03.01	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.07 38.06.02.07 38.06.02.09 38.06.02.10 38.06.03.01 38.06.03.02 38.06.03.02 38.06.03.02	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08 38.06.02.09 38.06.02.10 38.06.03.01 38.06.03.01 38.06.03.03 38.06.03.03	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.08 38.06.02.09 38.06.02.10 38.06.03.01 38.06.03.01 38.06.03.03 38.06.03.03 38.06.03.03	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flats for a four-page signature
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.07 38.06.02.07 38.06.02.09 38.06.02.10 38.06.03.01 38.06.03.03 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.05	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flats for a four-page signature Assemble single-color flat for an eight-page signature Assemble a line and halftone combination flat
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.07 38.06.02.08 38.06.02.09 38.06.02.10 38.06.03.01 38.06.03.03 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.07 38.06.03.07	Identify basic materials in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and tumble imposition Assemble a single-color flat for a four-page signature Assemble single-color flat for an eight-page signature Assemble a multicolor job with color quality control bars for a four-page signature
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.07 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.03 38.06.03.04 38.06.03.04 38.06.03.05 38.06.03.06 38.06.03.07 38.06.03.07 38.06.03.08	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble a single-color flat for an eight-page signature Assemble single-color flat for an eight-page signature Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single-color step and repeat flat (without pin register)
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.02 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.05 38.06.03.07 38.06.03.09 38.06.03.09	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch usingle-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flat for a four-page signature Assemble a line and halftone combination flat Assemble a line and halftone combination flat Assemble a single color step and repeat flat (without pin register) Assemble single color step and repeat flat (without pin register system
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.03 38.06.03.04 38.06.03.04 38.06.03.05 38.06.03.05 38.06.03.07 38.06.03.08 38.06.03.09 38.06.03.09	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble a single-color flat for an eight-page signature Assemble a line and halftone combination flat Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single color step and repeat flat (without pin register) Assemble single color step and repeat flat (without pin register) Check registration of multiple flats using daylight-proofing material
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.03 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.06 38.06.03.07 38.06.03.08 38.06.03.08 38.06.03.08 38.06.03.10 38.06.03.11 38.06.03.11	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flat for an eight-page signature Assemble single-color flat for an eight-page signature Assemble a multicolor job with color quality control bars for a four-page signature Assemble a multicolor step and repeat flat (without pin register) Assemble single color step and repeat flat using a pin register system Check registration of multiple flats using daylight-proofing material Assemble a multicolor job that uses masking film as a mechanical negative on one of the above Identify and strip a multicolor job using registration marks and clear masking materials
38.06.02.02 38.06.02.03 38.06.02.03 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.02 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.05 38.06.03.07 38.06.03.08 38.06.03.09 38.06.03.11 38.06.03.11	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using per-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flat for a four-page signature Assemble a line and halftone combination flat Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single color step and repeat flat (without pin register) Assemble a single color step and repeat flat (without pin register) Assemble a multicolor job that uses masking film as a mechanical negative on one of the above Identify and strip a multicolor job using registration marks and clear masking materials Proof color work with color proofing materials
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.05 38.06.03.07 38.06.03.08 38.06.03.09 38.06.03.10 38.06.03.11 38.06.03.11 38.06.03.11	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble a single-color flat for an eight-page signature Assemble a line and halftone combination flat Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single color step and repeat flat (without pin register) Assemble a single color step and repeat flat using a pin register system Check registration of multiple flats using daylight-proofing material Assemble a multicolor job that uses masking film as a mechanical negative on one of the above Identify and strip a multicolor job using registration marks and clear masking materials Proof color work with color proofing materials Produce a dummy for a book with a lip signature
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.05 38.06.03.07 38.06.03.08 38.06.03.09 38.06.03.10 38.06.03.11 38.06.03.11 38.06.03.11	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch using per-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flat for a four-page signature Assemble a line and halftone combination flat Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single color step and repeat flat (without pin register) Assemble a single color step and repeat flat (without pin register) Assemble a multicolor job that uses masking film as a mechanical negative on one of the above Identify and strip a multicolor job using registration marks and clear masking materials Proof color work with color proofing materials
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.02 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.05 38.06.03.06 38.06.03.07 38.06.03.08 38.06.03.10 38.06.03.11 38.06.03.11 38.06.03.12 38.06.03.15 38.06.03.16	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-envelopes Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat for an eight-page signature Assemble single-color flat for an eight-page signature Assemble a line and halftone combination flat Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single color step and repeat flat (without pin register) Assemble single color step and repeat flat (without pin register) Assemble a multicolor job that uses masking film as a mechanical negative on one of the above Identify and strip a multicolor job using registration marks and clear masking materials Produce a dummy for a book with a lip signature Produce a dummy for a book with a lip signature Produce a dummy for a book with a lip signature
38.06.02.02 38.06.02.03 38.06.02.04 38.06.02.05 38.06.02.06 38.06.02.07 38.06.02.09 38.06.02.10  38.06.03.01 38.06.03.03 38.06.03.04 38.06.03.05 38.06.03.01 38.06.03.01 38.06.03.01 38.06.03.01 38.06.03.05 38.06.03.06 38.06.03.07 38.06.03.08 38.06.03.08 38.06.03.09 38.06.03.11 38.06.03.11 38.06.03.11 38.06.03.15 38.06.03.16	Identify basic materials in image assembly Identify basic equipment in image assembly Identify basic equipment in image assembly Establish "true edge" and "vertical alignment" on an image assembly table (square up) Lay out, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate-clamp, center marks) for 8-+ inch by 11-inch single-color work Assemble an 8 + inch by 11 inch negative into a flat Make appropriate corrections to film negative and flat Layout, measure, and rule an unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate clamp, center marks) for 11 inch by 17 inch single-color work Assemble and strip single color flat for 11 inch by 17 inch using pre-ruled masking sheet Layout, measure and rule on unlined masking sheet showing relevant guidelines (edge of sheet, gripper margins, plate, clamper, center marks) for 8-+ inch by 11-inch multicolor work using pin register system  Assemble single and multicolor flats Assemble a flat for single color-work and turn imposition Assemble a flat for single color-work and turn imposition Assemble a single-color flat that includes screen tints Assemble single-color flat that includes screen tints Assemble single-color flat for an eight-page signature Assemble a multicolor job with color quality control bars for a four-page signature Assemble a multicolor job with color quality control bars for a four-page signature Assemble a single color step and repeat flat (without pin register) Assemble a multicolor job that uses masking film as a mechanical negative on one of the above Identify and strip a multicolor job using registration marks and clear masking materials Produce a dummy for a book with a lip signature Produce a 16-page signature dummy with proper imposition, pagination, and directions



	Prepare various types of plates
38.06.05.01	Identify basic parts of the platemaker and metal plates
	Identify basic parts of the photo direct or direct transfer platemaker
38.06.05.03	Identify plate materials and plate types
38.00.03.04	Identify processing chemicals and methods Identify plate-making procedures for metal plates
30.00.03.03	Determine exposure time for metal plates using transparent step scale and rub down test
38.06.05.00	Determine exposure time for metal plates using transparent step scale and rub down test Prepare metal plates (e.g., expose, process, and store)
38.06.05.07	Make additions, deletions and repairs to offset plate
38.06.05.09	Define CTP (computer to plate) technology
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20 07 00 0	Duran Omenations
38.07.00.0	Press Operations
38.07.01.0	Identify parts of a printing press
	Identify basic parts and systems of a press*
	Identify basic press operation procedures*
	Identify basic offset press parts and operations*
	Identify basic safety and operation procedures for an offset press for single color printing*
38.07.01.03	Perform basic setup for printing a single-color job* Produce a printed single-color job using an offset press*
38.07.01.00	Perform daily clean up and maintenance*
20.07.01.07	2 ditorii dany didan ap and indinana.
38.07.02.0	Use safety precautions when operating a press
	Practice safe work habits in press operations
38.07.02.02	Identify safety considerations for press operations
38.07.02.03	Practice safe work habits on press operations
38.07.02.04	Clean and secure press for down time
39 07 03 0	Select and handle paper according to job specifications
29.07.03.0	Identify basic paper types and sizes***
38.07.03.01	Determine grain directions of paper***
38.07.03.02	Handle and jog paper stock (wire/felt, watermarks, carbonless sequence)***
38.07.03.04	Identify paper weight, coating and sizes***
38.07.03.05	Identify paper problems (curling)***
20.05.04.0	The same of the first the same of the same
38.07.04.0	Prepare ink for the press
38.07.04.01	Identify offset ink types and uses***
38.07.04.02	Identify ink additives*** Identify ink problems***
38.07.04.03	Describe a procedure to set up, mix and test ink for printing using ink color chart for mixing requirements***
	Identify fountain solutions and additives***
38.07.04.06	Identify mixed fountain solution testing materials, equipment and procedures***
	Mix fountain solutions using appropriate ratios***
20.05.05.0	The decrease was a second to the manufacture of a second control of the second control o
	Ready press systems according to manufacturer's specifications
	Review job ticket
38.07.03.02	Set up feeder for paper or envelope size Load paper
38.07.05.03	Mix ink to color specifications
38.07.05.05	Inspect dampening system
	Mix dampening solutions
38.07.05.07	Test dampening system for pH
	Fill dampening system
38.07.05.09	Adjust dampening system
38.07.05.10	Clean plate Install plate
	Fill inking system
38.07.05.12	Adjust inking system
38.07.05.14	Adjust inking system Set impression cylinder to paper thickness and press specification
38.07.05.15	Set up/adjust register system
	Set delivery adjustments
38.07.05.17	Set spray powder
38 07 06 0	Set up and print in color
38 07 06 01	Make-ready paper systems***
38.07.00.01 38.07.06.02	Make-ready inking systems***
38.07.06.03	Make-ready dampening systems***
38 07 06 04	Print single-color job using a metal plate***
38.07.06.05	Print single-color job using photo direct and/or electrostatic masters***
38.07.06.06	Print a single-color job two-sided***
38.07.06.07	Print a single-color job on carbonless stock***
70 A7 AC A0	Print a single-color job on envelopes***



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38.07.06.09 Print a single-color job on heavy stock***
38.07.06.10 Print a single-color job work and tumble***
38.07.06.11 Print a single-color job work and turn***
38.07.06.12 Print a two-color job on a press without register marks***
38.07.06.13 Print a two-color job using register marks***
38.07.06.14 Print a two-color job with color bars***
38.07.06.15 Print a two-color job with color bars**
38.07.06.16 Print a two-color job on a press using a T head***
   38.07.06.16 Print a two-color job on a press using a T-head***
   38.07.06.17 Evaluate print quality and make needed adjustments to improve printed piece***
38.07.06.18 Print close register color work***
38.07.06.19 Print heavy solid work making needed adjustments to improve quality***
 38.07.07.0 Produce printed images according to customer's signed proof
   38.07.07.01 Feed paper
   38.07.07.02 Ensure that image positions are correct
   38.07.07.03 Ensure that registration is correct
   38.07.07.03 Ensure that registration is correct
38.07.07.04 Compare printed piece to final customer proof
38.07.07.05 Clean plate and blanket
38.07.07.06 Set counter
38.07.07.07 Print images
38.07.07.08 Maintain ink/water balance and water pH
38.07.07.09 Maintain image density and ink coverage
38.07.07.10 Perform quality inspections
   38.07.07.11 Unload delivery system
    38.07.07.12 Preserve/store plate
   38.07.07.13 Clean blanket
   38.07.07.14 Drain dampening system
   38.07.07.15 Protect inking system
 38.07.08.0 Wash up press according to manufacturer's specifications, OSHA, and EPA
                       regulations***
   38.07.08.01 Protect dampening system
   38.07.08.02 Clean ink fountain(s)
   38.07.08.03 Protect delivery system
    38.07.08.04 Install wash-up devices
   38.07.08.05 Apply solvents
38.07.08.06 Operate wash-up system
38.07.08.07 Clean wash-up devices
   38.07.08.08 Perform deglazing operations
38.07.08.09 Clean cylinders
38.07.08.10 Clean bearers and press covers
   38.07.08.11 Store supplies
   38 07.08.12 Clean work area
   38.07.08.13 Dispose of cleaning rags, solvents, used ink, and fountain solution
 38.07.09.0 Maintain presses according to manufacturer's specifications***
   38.07.09.01 Consult maintenance manual 38.07.09.02 Lubricate press system
   38.07.09.03 Check all key components (e.g., blanket, ink train rollers, dampening rollers) 38.07.09.04 Replace worn blankets
   38.07.09.05 Adjust ink train rollers
38.07.09.06 Replace dampening covers
38.07.09.07 Adjust dampening rollers
38.07.09.08 Maintain air/vacuum system (e.g., clean, adjust)
    38.07.09.09 Maintain feed and delivery systems
    38,07,09,10 Perform factory-recommended maintenance
    38.07.09.11 Set up a preventive maintenance schedule chart
    38.07.09.12 Inventory spare parts
  38.07.10.0 Troubleshoot problems
   38.07.10.01 Solve ink and dampening problems
    38.07.10.02 Solve paper stock problems
    38.07.10.03 Solve process problems
    38.07.10.04 Solve mechanical problems
38.08.00.0 Finishing and Binding
  38.08.01.0 Follow safety procedures in a bindery
    38.08.01.01 Identify safety considerations in bindery operations*
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38.08.01.02 Practice safe work habits in bindery operations\*

38.08.02.0	Describe and identity offline-finishing systems
	Describe the fundamentals of saddle stitching and perfect binding
38.08.02.02	Identify packaging and shrink-wrapping equipment and materials
	Demonstrate knowledge of mail class rates (i.e.,bulk, pre-sorted)
	Identify the components of a case bound book
38.08.02.05	Identify die-cut products and the basic procedure for die cutting
38.08.02.06	Describe basic equipment materials and procedures for foil stamping and embossing
	Identify soft-and hard-case binding to include methods and glue applications
	Prepare folding dummies for the most commonly used impositions
38.08.02.09	Describe various coating and laminating techniques
38.08.02.10	Describe the techniques used in waste control reproduction and disposal
	Identify spiral binding and wire binding equipment and products
	Describe tipping in procedures
38.08.02.13	Identify common production problems in the bindery
38.08.02.14	Identify various ancillary equipment such as gluing and ink jetting
38.08.02.15	Describe binding processes and techniques
20 00 02 0	Onovata a nanov auttav
	Operate a paper cutter
	Identify operational and safety part of a paper cutter*
38.08.03.02	Identify grain direction of paper*
38.08.03.03	Calculate basic paper cuts from stock sheets*
	Draw a master cutting diagram for making cuts*
38.08.03.05	Square stock*
	Make accurate paper cuts using a mechanized paper cutter*
	Identify basic paper types, weights, grades and classification used in the printing industry*
38.08.03.08	Perform preventive maintenance on a paper cutter*
38 08 04 0	Operate padding equipment and hand tools*
	Identify padding equipment, hand tools, and materials* Produce correctly made pads of paper*
30.00.04.02	Trouble confectly made pads of paper
38.08.05.0	Produce saddle-stitched/stapled products*
	Set up stapling and stitching equipment and hand tools*
	Produce side and saddle-stitched/stapled products*
20.00.02.02	Thousand the second survival products
38.08.06.0	Drill three-ring notebook pages*
	Demonstrate punching/drilling equipment and hand tools*
38.08.06.02	Measure to drill three-ring notebook pages*
	Set-up/demonstrate a three-hold drill to produce a drill job*
38.08.06.04	Make holes for three-ring notebook*
	Demonstrate binding techniques
38.08.07.01	Explain basic paper counting techniques to include spoon method, thumb method and fanning method and
	automated counting
38.08.07.02	Demonstrate safe paper carrying methods, including roll method
	Demonstrate basic paper jogging techniques
38.08.07.04	Demonstrate a working knowledge of registration and pagination
20 00 00 0	On anota falding a guinn ant
	Operate folding equipment
	Define folding terminology
38.08.08.02	Identify different folding techniques
38.08.08.03	Make ready folder according to job specifications on a folder
	Set up/operate folder consistent with job specifications
38.08.08.05	Describe and identify the uses of right angle folding*
38.08.08.06	Use folding equipment to produce an accordion fold
38.08.08.07	Use folding equipment to produce a double-folded job
38.08.08.08	Use folding equipment to slit, perforate, fold and score
38.08.08.09	Describe and identify inline-finishing systems
48 US US 10	
	Prepare folding dummies for the most commonly used impositions  Perform preventive maintenance and knife folding/combination folding





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